



IFWO

## RAW SEQUENCE LISTING

DATE: 08/23/2004

PATENT APPLICATION: US/10/770,639

TIME: 16:41:31

Input Set : A:\27331-501CIP2A.ST25.txt

Output Set: N:\CRF4\08232004\J770639.raw

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3 <110> APPLICANT: Sanchez-Madrid, Francisco
4      Martinez Alonso, Carlos
5      Sancho Madrid, David
6      Engel Rocamora, Pablo
7      Esplugues Artola, Enric
8      Vega Ramos, Javier
9      Lauzurica Gomez, Pilar
11 <120> TITLE OF INVENTION: Immune Regulation Based on the Targeting of Early Activation
12      Molecules
14 <130> FILE REFERENCE: 27331-501CIP2A
16 <140> CURRENT APPLICATION NUMBER: 10/770639
17 <141> CURRENT FILING DATE: 2004-02-02
19 <150> PRIOR APPLICATION NUMBER: ES 200300252
20 <151> PRIOR FILING DATE: 2003-01-31
22 <150> PRIOR APPLICATION NUMBER: ES 200302587
23 <151> PRIOR FILING DATE: 2003-11-05
25 <160> NUMBER OF SEQ ID NOS: 6
27 <170> SOFTWARE: PatentIn version 3.2
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 1702
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <400> SEQUENCE: 1
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39 ttgcatccgg agagtggaca agaaaatgat gccaccagtc cccatttctc aacacgtcat      180
41 gaagggctct tccaagttcc tgtcctgtgt gctgtaatga atgtggtctt catcaccatt      240
43 ttaatcatag ctctcattgc cttatcagtg ggccaatata attgtccagg ccaatacaca      300
45 ttctcaatgc catcagacag ccatgtttct tcatgctctg aggactgggt tggctaccag      360
47 aggaaatgct actttatttc tactgtgaag aggagctgga cttcagccca aaatgcttgt      420
49 tctgaacatg gtgctactct tgctgtcatt gattctgaaa aggacatgaa ctttctaaaa      480
51 cgatacgcat gtagagagga aactgggtt ggactgaaaa aggaacctgg tcacccatgg      540
53 aagtgggtcaa atggcaaaga atttaacaac tgggtcaacg ttacagggtc tgacaagtgt      600
55 gtttttctga aaaacacaga ggtcagcagc atggaatgtg agaagaattt atactggata      660
57 tgtaacaaac cttacaaata ataaggaaac atgttcactt attgactatt atagaatgga      720
59 actcaaggaa atctgtgtca gtgatgctg ctctgtggtc cgaagtcttc catagagact      780
61 ttgtgaaaaa aaattttata gtgtcttggg aattttcttc caaacagaa tatggaaaaa      840
63 aaggaagaaa ttccaggaaa atctgcactg tgggctttta ttgccatgag ctagaagcat      900
65 cacaggttga ccaataacca tgccaagaa tgagaagaat gactatgcaa ctttggatg      960
67 cactttatat tattttgaat ccagaaataa tgaaataact aggcgtggac ttactattta      1020
69 ttgctgaatg actaccaaca gtgagagccc ttcatgcatt tgcactactg gaaggagtta      1080
71 gatgttggtg ctagatactg aatgtaaaca aaggaattat ggctggtaac ataggttttt      1140
73 agtctaattg aatcccttaa actcaggagg catttataaa tggacaaatg cttatgaaac      1200

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**ENTERED**

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75 taagatttgt aatattttctc tcttttttaga gaaatttgcc aatttacttt gttatttttc 1260
77 cccaaaaaga atgggatgat cgtgtattta tttttttact tcctcagctg tagacaggtc 1320
79 cttttcgatg gtacatatatt ctttgccctt ataatctttt atacagtgtc ttacagagaa 1380
81 aagacataag caaagactat gaggaatatt tgcaagacat agaatagtgt tggaaaatgt 1440
83 gcaatatgtg atgtggcaaa tctctattag gaaatattct gtaatcttca gacctagaat 1500
85 aatactagtc ttataatagg tttgtgactt tcctaaatca attctattac gtgcaatact 1560
87 tcaatacttc attttaaata tttttatgtg caataaaatg tatttgtttg tattttgtgt 1620
89 tcagtacaat tataagctgt ttttatatat gtgaaataaa agtagaataa acacaaaaaa 1680
91 aaaaaaaaaa aaaaaaaaaa aa 1702

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95 &lt;211&gt; LENGTH: 199

96 &lt;212&gt; TYPE: PRT

97 &lt;213&gt; ORGANISM: Homo sapiens

99 &lt;400&gt; SEQUENCE: 2

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102 1 5 10 15
105 Glu Ser Gly Gln Glu Asn Asp Ala Thr Ser Pro His Phe Ser Thr Arg
106 20 25 30
109 His Glu Gly Ser Phe Gln Val Pro Val Leu Cys Ala Val Met Asn Val
110 35 40 45
113 Val Phe Ile Thr Ile Leu Ile Ile Ala Leu Ile Ala Leu Ser Val Gly
114 50 55 60
117 Gln Tyr Asn Cys Pro Gly Gln Tyr Thr Phe Ser Met Pro Ser Asp Ser
118 65 70 75 80
121 His Val Ser Ser Cys Ser Glu Asp Trp Val Gly Tyr Gln Arg Lys Cys
122 85 90 95
125 Tyr Phe Ile Ser Thr Val Lys Arg Ser Trp Thr Ser Ala Gln Asn Ala
126 100 105 110
129 Cys Ser Glu His Gly Ala Thr Leu Ala Val Ile Asp Ser Glu Lys Asp
130 115 120 125
133 Met Asn Phe Leu Lys Arg Tyr Ala Gly Arg Glu Glu His Trp Val Gly
134 130 135 140
137 Leu Lys Lys Glu Pro Gly His Pro Trp Lys Trp Ser Asn Gly Lys Glu
138 145 150 155 160
141 Phe Asn Asn Trp Phe Asn Val Thr Gly Ser Asp Lys Cys Val Phe Leu
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145 Lys Asn Thr Glu Val Ser Ser Met Glu Cys Glu Lys Asn Leu Tyr Trp
146 180 185 190
149 Ile Cys Asn Lys Pro Tyr Lys
150 195

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153 &lt;210&gt; SEQ ID NO: 3

154 &lt;211&gt; LENGTH: 759

155 &lt;212&gt; TYPE: DNA

156 &lt;213&gt; ORGANISM: Homo sapiens

158 &lt;400&gt; SEQUENCE: 3

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159 ctgtgctgta aaaacaagag taacattttt atatttaaagt taaataaagt tacaactttg 60
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163 aagaagcacg gtatgatgac caaacataaa aagtgtttta taattgttgg tgttttaata 180
165 acaactaata ttattactct gatagttaaa ctaactcgag attctcagag tttatgcccc 240

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167 tatgattgga ttggtttcca aaacaaatgc tattatttct ctaaagaaga aggagattgg 300
169 aattcaagta aatacaactg ttccactcaa catgccgacc taactataat tgacaacata 360
171 gaagaaatga attttcttag gcggtataaa tgcagttctg atcactggat tggactgaag 420
173 atggcaaaaa atcgaacagg acaatgggta catggagcta catttaccaa atcgtttggc 480
175 atgagagggga gtgaaggatg tgcctacctc agcgatgatg gtgcagcaac agctagatgt 540
177 tacaccgaaa gaaaatggat ttgcaggaaa agaatacact aagttaatgt ctaagataat 600
179 ggggaaaata gaaaataaca ttattaagtg taaaaccagc aaagtacttt ttttaattaa 660
181 caaagttcga gttttgtacc tgtctgggta attctgctta cgtgtcaggc tacacataaa 720
183 agccacttca aagattggca aaaaaaaaaa aaaaaaaaaa 759

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186 &lt;210&gt; SEQ ID NO: 4

187 &lt;211&gt; LENGTH: 149

188 &lt;212&gt; TYPE: PRT

189 &lt;213&gt; ORGANISM: Homo sapiens

191 &lt;400&gt; SEQUENCE: 4

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194 1 5 10 15
197 Thr Thr Asn Ile Ile Thr Leu Ile Val Lys Leu Thr Arg Asp Ser Gln
198 20 25 30
201 Ser Leu Cys Pro Tyr Asp Trp Ile Gly Phe Gln Asn Lys Cys Tyr Tyr
202 35 40 45
205 Phe Ser Lys Glu Glu Gly Asp Trp Asn Ser Ser Lys Tyr Asn Cys Ser
206 50 55 60
209 Thr Gln His Ala Asp Leu Thr Ile Ile Asp Asn Ile Glu Glu Met Asn
210 65 70 75 80
213 Phe Leu Arg Arg Tyr Lys Cys Ser Ser Asp His Trp Ile Gly Leu Lys
214 85 90 95
217 Met Ala Lys Asn Arg Thr Gly Gln Trp Val His Gly Ala Thr Phe Thr
218 100 105 110
221 Lys Ser Phe Gly Met Arg Gly Ser Glu Gly Cys Ala Tyr Leu Ser Asp
222 115 120 125
225 Asp Gly Ala Ala Thr Ala Arg Cys Tyr Thr Glu Arg Lys Trp Ile Cys
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229 Arg Lys Arg Ile His
230 145

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233 &lt;210&gt; SEQ ID NO: 5

234 &lt;211&gt; LENGTH: 850

235 &lt;212&gt; TYPE: DNA

236 &lt;213&gt; ORGANISM: Homo sapiens

238 &lt;400&gt; SEQUENCE: 5

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241 gcctgcaaac ccagggtgtc tgcattcaaa agagcattct attaaagcta ccttaatttg 120
243 gcgcttattt ttcttaatac tgtttctgac aatcatagtg tgtggaatgg ttgctgcttt 180
245 aagcgcaata agagctaact gccatcaaga gccatcagta tgtcttcaag ctgcatgccc 240
247 agaaagctgg attggtttcc aaagaaagtg ttctattttt tctgatgaca ccaagaactg 300
249 gacatcaagt cacaggtttt gtgactcaca agatgctgat cttgctcagg ttgaaagett 360
251 ccaggaactg aatttctgtg tgagatataa aggcccatct gatcactgga ttgggctgag 420
253 cagagaacaa ggccaacat ggaaatggat aaatggtaact gaatggacaa gacagtttcc 480
255 tctctgggga gcaggagagt gtgcctatgt gaatgacaaa ggtgccagta gtgccaggca 540
257 ctacacagag aggaagtggg tttgttccaa atcagatata catgtctaga tggtacagca 600

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259 aagccccaac taatcttttag aagcatattg gaactgataa ctccatttta aaatgagcaa      660
261 agaattttatt tcttatacca acaggtatat gaaaatatgc tcaatatcac taataactgg      720
263 gaaaatacaaa atcaaaaatca tagtaaaata ttacctgttt tcatggtgct aatattacct      780
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272 <212> TYPE: PRT
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281 Pro Ala Asn Pro Gly Cys Leu His Ser Lys Glu His Ser Ile Lys Ala
282 20 25 30
285 Thr Leu Ile Trp Arg Leu Phe Phe Leu Ile Met Phe Leu Thr Ile Ile
286 35 40 45
289 Val Cys Gly Met Val Ala Ala Leu Ser Ala Ile Arg Ala Asn Cys His
290 50 55 60
293 Gln Glu Pro Ser Val Cys Leu Gln Ala Ala Cys Pro Glu Ser Trp Ile
294 65 70 75 80
297 Gly Phe Gln Arg Lys Cys Phe Tyr Phe Ser Asp Asp Thr Lys Asn Trp
298 85 90 95
301 Thr Ser Ser Gln Arg Phe Cys Asp Ser Gln Asp Ala Asp Leu Ala Gln
302 100 105 110
305 Val Glu Ser Phe Gln Glu Leu Asn Phe Leu Leu Arg Tyr Lys Gly Pro
306 115 120 125
309 Ser Asp His Trp Ile Gly Leu Ser Arg Glu Gln Gly Gln Pro Trp Lys
310 130 135 140
313 Trp Ile Asn Gly Thr Glu Trp Thr Arg Gln Phe Pro Ile Leu Gly Ala
314 145 150 155 160
317 Gly Glu Cys Ala Tyr Leu Asn Asp Lys Gly Ala Ser Ser Ala Arg His
318 165 170 175
321 Tyr Thr Glu Arg Lys Trp Ile Cys Ser Lys Ser Asp Ile His Val
322 180 185 190

```

**VERIFICATION SUMMARY**

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